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NOTICE OF ALLOWANCE AND FEE(S) DUE

26541

7590

04/04/2002

RITTER, LANG & KAPLAN 12930 SARATOGA AE. SUITE D1 SARATOGA, CA 95070

EX	AMINER		
FAN, CHIEH M			
ART UNIT	CLASS-SUBCLASS		

DATE MAILED: 04/04/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/435,293	11/05/1999	GREGORY G. RALEIGH	CISCP601C2	5006

TITLE OF INVENTION: SPATIO-TEMPORAL PROCESSING FOR INTERFERENCE HANDLING

TOTAL CLAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
18	nonprovisional	NO	\$1280	\$0	\$1280	07/05/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and mail this form, together with applicable fee(s), to:

Box ISSUE FEE

Assistant Commissioner for Patents Washington, D.C. 20231

indicated unless correct maintenance fee notific	ted below or directed of ations.	therwise in Block 1, by	(a) specifying a new c		I (if required). Blocks 1 throws will be mailed to the currents; and/or (b) indicating a sep		
26541 RITTER, LAN	7590 04/0 NG & KAPLAN	bly mark-up with any corrections 4/2002	or use Block 1)		te of mailing below can o (s) Transmittal. This certific g papers. Each additional pa nust have its own certificate		
12930 SARATOGA AE. SUITE DI SARATOGA, CA 95070				I hereby certify the United States Postal envelope addressed indicated below.	Certificate of Mailing at this Fee(s) Transmittal is Service with sufficient posta to the Box Issue Fee ac	Annian described to the se	
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	3	FIRST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/435,293	11/05/1999		GREGORY G. RALI		CISCP601C2	5006	
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18	nonprovisional	NO	\$1280	\$0	EE TOTAL FEE(S) DUE \$1280	07/05/2002	
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PLEASE NOTE: Unle been previously submit (A) NAME OF ASSIG	ss an assignee is identif tted to the USPTO or is l NEE	A TO BE PRINTED ON ied below, no assignee d being submitted under sej (I r categories (will not be p	ata will appear on the parate cover. Completic B) RESIDENCE: (CITY	oatent. Inclusion of ass on of this form is NOT I and STATE OR COU	ignee data is only appropriat a substitute for filing an assig JNTRY) corporation or other private g		
4a. The following fee(s)			b. Payment of Fee(s):			coup enacy — government	
☐ Issue Fee			A check in the amount	of the fee(s) is enclose	ed.		
☐ Publication Fee		u	Payment by credit care	nent by credit card. Form PTO-2038 is attached.			
☐ Advance Order - # o	of Copies		The Commissioner is 2 Deposit Account Numbe	hereby authorized by c	harge the required fee(s), or conclose an extra copy of this	redit any overpayment, to	
The COMMISSIONER (OF PATENTS AND TR				if any) or to re-apply any pre	•	
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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/435,293		11/05/1999	GREGORY G. RALEIGH	GH CISCP601C2	
26541	7590	04/04/2002		EXAMINER	
RITTER, LAI 12930 SARAT				FAN, CHI	ЕН М
SARATOGA,				ART UNIT	PAPER NUMBER
UNITED STAT	res			2634	
				DATE MAILED: 04/04/2002	

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

				<i>→M</i>
	Application	No.	Applicant(s)	₩
Notice of Allowability	09/435,293		RALEIGH ET AL.	
Notice of Allowability	Examiner		Art Unit	
	Chieh M Fan		2634	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	6 (OR REMAINS) or other appro R IGHTS . This a	 CLOSED in this app priate communication polication is subject to 	rrespondence addres	d
 This communication is responsive to the amendment filed The allowed claim(s) is/are 224-231,233-237 and 240-244 The drawings filed on 20 February 2002 are accepted by the drawings filed on 20 February 2002 are accepted by the drawings filed on 20 February 2002 are accepted by the drawings filed on 20 February 2002 are accepted by the drawings filed on 20 February 2002 are accepted by the drawings filed on 20 February 2002 are accepted by the drawings filed on 20 February 2002 are accepted by the drawings filed on 20 February 2002 are accepted by the drawings filed on 20 February 2002 are accepted by the drawings filed on 20 February 2002 are accepted by the drawings filed on 20 February 2002 are accepted by the 20 February 2002 are accepted by the 20 February 2002 are accepted by the 4. All b) Some* c) None of the: Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. 	4. the Examiner. der 35 U.S.C. § e been received e been received	in Application No	 ational stage applicatio	on from the
International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority u (a) The translation of the foreign language provisional a 6. Acknowledgment is made of a claim for domestic priority u Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of the submit o	application has a nder 35 U.S.C. f this communic this application.	peen received. §§ 120 and/or 121. ation to file a reply con THIS THREE-MONT	nplying with the require	XTENDABLE.
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No (b) including changes required by the proposed drawing of including changes required by the attached Examiner' Identifying indicia such as the application number (see 37 CFR 1. of each sheet. The drawings should be filed as a separate paper 	son's Patent Dr correction filed 's Amendment / .84(c)) should be with a transmitte	awing Review (PTO-9, which has bee Comment or in the Of written on the drawing at letter addressed to the	en approved by the Exa fice action of Paper No s in the top margin (not e Official Draftsperson.	the back)
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT FOR TI 	sit of BIOLOG HE DEPOSIT C	ICAL MATERIAL MU F BIOLOGICAL MATE	ist be submitted. Not ERIAL.	e the
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449), Paper No Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6 8	☐ Interview Summary☐ Examiner's Amend	Patent Application (PTo y (PTO-413), Paper No Iment/Comment eent of Reasons for Allo	D

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Statement of Reasons for Allowance

1. Claims 224-231, 233-237 and 240-244 are allowed and they have been renumbered.

2. The following is an examiner's statement of reasons for allowance:

Claims 225, 226, 236 and 237 are allowable because the prior art of record does not teach or suggest the limitation of "said weightings are chosen based on characterization of a desired signal subspace and an undesired signal subspace".

Claims 229 is allowable because the prior art of record does not teach or suggest an encoder that applies a coding procedure to inputs to said spatial processor, and wherein said coding procedure is applied independently for each of said input bins.

Claims 241 and 242 are allowable because the prior art of record does not teach or suggest an decoder that applies a decoding procedure to outputs to said spatial processor, and wherein said decoding procedure is applied independently for each of said output bins.

Claims 224, 227, 228, 230-235, 238, 239, 243 and 244 are allowable because terminal disclaimer has been filed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Page 3

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chieh M Fan whose telephone number is (703) 305-

0198. The examiner can normally be reached on Monday-Friday 8:00AM-5:30PM,

Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen Chin can be reached on (703) 305-4714. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 872-9314

for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 305-

4750.

Chieh M Fan Examiner

Art Unit 2634

cmf

March 31, 2002

STEPHEN CHIN

SUPERVISORY PATENT EXAMINEF

TECHNOLOGY CENTER 2600